

CLAIMS

I claim:

1. A method comprising:

receiving information from each of a plurality of repeaters indicating which of a plurality of packets wirelessly transmitted by a mobile station were received by each repeater including received signal strength of each of the wirelessly transmitted packets at said each repeater; and

determining location of the mobile station with respect to the plurality of repeaters based on power levels of individual packets of the plurality of wirelessly transmitted packets received at the plurality of repeaters.

2. The method defined in Claim 1 further comprising storing information indicating which repeater is closest to the mobile station.

3. The method defined in Claim 2 further comprising:
setting a switch port assigned to the repeater closest to the mobile station; and
sending a packet with a destination address being the mobile station via a switch port associated with the repeater that is closest to the mobile station.

4. The process defined in Claim 1 wherein the wirelessly transmitted packets are transmitted according to the 802.11 family of protocols.

5. The process defined in Claim 1 wherein the mobile station is one selected from a group consisting of a mobile phone, a cellular phone, a cordless phone, a headset, a voice-enabled mobile station, a laptop computer system, and a personal digital assistant or any computer-data-enabled mobile station.

6. A system comprising:
 one or more mobile stations having transmitters to transmit packets wirelessly;
 a plurality of repeaters communicably coupled with one or more mobile stations, wherein each of the plurality of repeaters receives one or more packets of the wirelessly transmitted packets from the mobile station and forwards received packets with received signal strength indications; and
 a switch coupled to the plurality of repeaters to receive forwarded packets from each of the plurality of repeaters to perform location tracking of the mobile stations based on received signal strength indicators.